PETRI

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PETRI PENTA

INSTRUCTION BOOK

DESCRIPTION OF PARTS

1. FILM WINDING LEVER
2. LOW SPEED SHUTTER DIAL
3. HIGH SPEED SHUTTER DIAL
4. FLASH SOCKET
5. SYNCHRO-SWITCH (X & FP)
6. ASA SPEED & AUTOMATIC EXPOSURE COUNTER
7. FILM REWIND CRANK
8. SCREWING HOLE FOR ACCESSORY SHOE ATTACHMENT
9. NECK STRAP LOOP
10. SHUTTER RELEASING BUTTON
11. DIAPHRAGM RING
12. DIAPHRAGM PRESETTING RING
13. DEPTH OF FIELD SCALE
14. FOCUS ADJUSTING HELICOID RING
15. ORIKKOR F:2 50mm LENS

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PETRI PENTA

PETRI

The KURIBAYASHI CAMERA INDUSTRY, INC. which started its optical manufacturing in 1910, is one of the most experienced camera manufacturers in Japan.

In recent years, over ten types of new PETRI cameras have been introduced to the still camera fans, including the 6x6-Trio; PETRI RF, PETRI Super, PETRI Flex, the PETRI 35 series; F3.5, F2.8, F1.9 and the well-known 'Green-O-Matic' series; F2.8, F1.9 and F1.8 which have made PETRI famous the world over.

Our motto "High Quality Cameras at Lowest Possible Prices" is made possible throngh our technical know-how and our most modern and efficient facilities.

Our surperlative conveyor system turns out finished cameras on the assembly line process - from lens, body, shutter, assembly and final inspection - which guarantees uniformity, precision and reliability.

Superlative Features of PETRI PENTA

TYPE :	Penta-Prism single lens reflex with Presetting Diaphragm
FILM SIZE :	35mm film (20 or 36 exposures)
PICTURE SIZE :	24mm x 36mm
STANDARD LENS :	PETRI ORIKKOR 50mm, F2, color corrected (Amber-Magenta coated) lens.
SHUTTER :	Focal Plane Shutter
SHUTTER SPEEDS :	1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250 1/500 sec. and B.
VIEW-FINDER :	Penta-Prism viewfinder with built-in image brightening Fresnel lens
MIRROR :	Shutter-coupled "Quick Return" System which avoids any image black-out. Assures viewing continuity, to capture the "just right" expression or action.
FILM TRANSPORT & REWIND:	Single-stroke (180°) rapid transport lever which automatically transports film and cocks the shutter simultaneously.
INTERCHANGEABLE LENS :	PRAKTICA Type screw-in mount (Diameter :42mm, Pitch : 1mm)
SYNCHRONIZATION :	FP & X Synchronization with built-in German type synchro-socket

ORIKKOR LENS

7-element, 4 group structure, aperture 2 - 22, direct mirror barrel, screw type
42φP=1, amber-magenta combination coating
Divided index type interchangeable lenses with one hand preset aperture

105mm	f=1:2.8
135mm	f=1:2.8
200mm	f=1:3.5
300mm	f=1:5

TEST CHART

THE ORIKKOR F2 50mm LENS

A new type of high quality lens for single-lens reflex use where the back focus is 73% of the focal length is used. This lens is made up of 7 layers of high refractive index flint glass. All lens aberrations have been completely corrected, and because glass of high refractive index is used, the reproduction of the original images are insured to the highest degree.
The unique amber-magenta coating of PETRI ORIKKOR lenses gives the highest effectiveness to both black and white and color photography.

PETRI PENTA

Our latest 35mm camera is the PETRI PENTA, a handsome eye-level-prism-plus-instant-return-mirror job with a manually preset 50mm F2 lens. Other features include a single-stroke rapid-advance lever, shutter speeds from 1 to 1/500 sec., a rapid-rewinding crank and a self-starting frame counter. Six accessory lenses for the PETRI PENTA with focal lengths ranging from 35- to 300-mm are available.

Beauty of design, simplicity of operation, sturdy construction, and the assurance of perfect pictures at all times, make PETRI PENTA the camera of all cameras. Whether for color, black and white, indoors or out, with or without flash, the PETRI PENTA will always be equal to the situation and ready to help you make those true-to-life pictures that you will cherish for many, many years.

OPENING THE BACK COVER

Pull down the lever with your thumbnail to open the cover.

The cover will be automatically released as shown in the picture.

NOTE: Be sure that the sprocket holes in the film line up with the projections on the take-up sproeket. Push back the film rewind knob so that it holds the cartridge. Make sure it goes in all the way. If not, rotate the knob slowly until it seats itself.

FILM LOADING

Pull out the film rewind knob on top of the camera. Slip the end of the film into the slot on the take up spool so that the end is fastened.

Pull the cartridge back, letting enough film unwind so that you can place the cartridge in its compartment.

CLOSING THE BACK COVER

Back cover will automatically be closed by pushing it and simultaneously the mark "S" will appear opposite the black indicator point on the film counter.

FILM WINDING

Cock the camera by turning the film winding lever and press the shutter button. Repeat this operation again, then turn film winding lever only and you are ready to snap your first picture. The number "1" will appear opposite the black indicator point on the film counter.

SETTING SHUTTER SPEED

Shutter speed is set either turning high speed shutter dial or low speed dial. Before using shutter speed dials, please read "FOCAL ADJUSTMENT" on page 12 and "FOCAL PLANE SHUTTER OF PETRI PENTA" on page 13.

NOTE : When cocking camera advance the film winding lever fully until it stops to insure full advancement of film.

SETTING APERTURE (DIAPHRAGM)

Turn the Diaphragm ring to the desired lens opening. Before use Diaphragm ring, please read "ONE HAND PRESET APERTURE" on page 12 and and "EXPOSURE SETTING" on page 14.

HOW TO HOLD YOUR PETRI PENTA

Since the film size of a 35mm camera is small, the slightest movement of the camera greatly affects the sharpness of the picture. When holding the camera, try to keep at least one elbow as close to the body as possible.

Cradle the camera in both palms, check your breath and press the shutter release button with the right index finger in a smooth and steady motion. Do not jerk the camera.

FOCAL ADJUSTMENT

Turn the helicoid ring to the right or left until the image in the round bright image glass in the center of the viewfinder becomes clearest. Focal adjustment is usually done with the aperture wide open, but the effectiveness of image making can be tested by presetting the aperture at a certain value.

ONE HAND PRESET APERTURE

Before adjusting focus, make the aperture full open by turning the Diophragm Presetting Ring to match the red point (●) on the same Ring with the red mark (◆) on the Depth of Field Scale. See picture A. Then, inside the viewfinder will maintain maximum brightness. After focal adjustment has been completed, please, do not forget to turn the Diophragm Prssetting Ring to the right until it stops at the match point (green mark). See picture B. You will notice that the field-of-view in the viewfinder becomes dark. All these operations can easily be made by one hand.

(A)

(B)

FOCAL PLANE SHUTTER OF PETRI PENTA

SHUTTER SPEEDS :

The PETRI PENTA is equipped with shutter of 1/2, 1/4, 1/8, 1/15, 1/30, X, 1/60, 1/125, 1/250, 1/500 sec. & B. Shutter speeds are read on the dial consisting of two rings. It is made to prevent the double exposure and the solidly-built, accurate and feather-touch release button is another PETRI PENTA first ! Please note that the numbers on the dial are all denominators of shutter speeds.

ADJUSTMENT OF SHUTTER SPEEDS :

When you use the slow speed shutter (refer to the picture on page 11) which are from 1/2 to 1/30 sec., set the figure $\frac{30}{-2}$ on high speeds to the white arrow-mark and turn your desired speed-mark on slow-speed dial to the green arrow mark. When you use high speed shutter (refer to the picture on page 11) 1/60 to 1/500 sec., first set slow-speed dial at 30 and lift high-speed dial, turn and drop to match the white arrow-mark with your desired speed. When you use B speed, set the slow-speed dial at 1/30 sec. and then, set the high-speed dial at B. When using X (red) for flash photography, please refer to "FLASH PHOTOGRAPHY" on page 18 and 19.

EXPOSURE SETTING

Aperture Setting

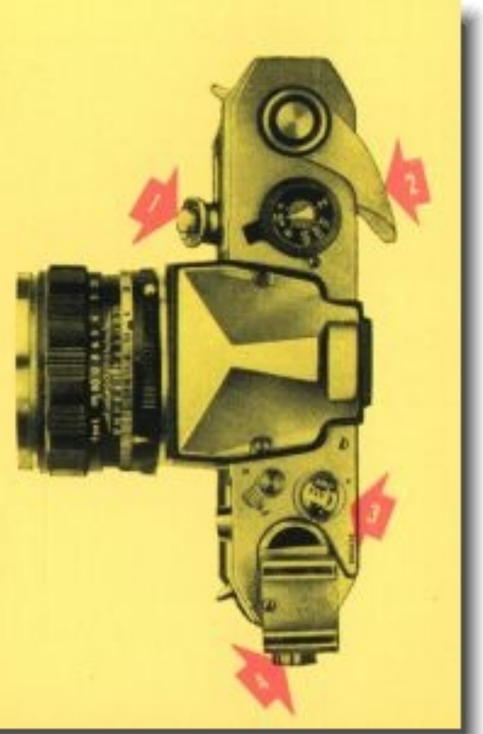
Turn the Diaphragm ring on the lens barrel in either direction and set it at the desired opening. This Diaphragm ring is of the click stop type so there is no fear of it sliding during shooting. If you set the Red Figures 11 and 12 on the Diaphragm Ring and Distance Scale at the Red Mark (◆), you do not need to adjust focus each time you aim at different subjects. Just set the shutter speed dial at your desired speeds and shoot.

SEASONABLE EXPOSURE GUIDE

SEASON / MONTH / SUBJECT	SPRING		SUMMER		AUTUMN		WINTER	
	Mar. Apr. May.		June. July Aug.		Sept. Oct. Nov.		Dec. Jan. Feb.	
Bright Subject	F. 16	SEC. 1/250	F. 22	SEC. 1/250	F. 16	SEC. 1/250	F. 11	SEC. 1/250
Average Subjects	8	1/250	11	1/250	8	1/250	8	1/250
Shaded Subjects	4	1/125	4	1/250	4	1/60	4	1/30
Weather	Fair		Cloudy (Slight)		Cloudy		Cloudy (Heavy)	
	Standard		2 Times		3 Times		4 Times	
Time	10 am.~2 pm.		9 am. ~ 10 am. 2 pm. ~ 3 pm.		8 am. ~ 9 am. 3 pm. ~ 4 pm.			
	Standard		2 Times		3 Times			
Film	ASA 100 H. S. pan				ASA 50 pan.			
	Standard				2Times			

NEW MECHANICAL DEVICE

1. The shutter releasing button is placed on the front of the camera body with an angle of inclination of 30° against the optical axes of the lens for easy shooting and preventing shock of camera body while pressing the button.
2. Automatic single stroke film transport lever is given a play in the range of 15° so as to ease the rapid successive shots.
3. ASA speed indicator with easy-to-read magnifying dial is located in the exposure counter dial and is used by turning the ring on the dial in either direction with finger tips. The exposure counter dial will move back to the starting point (S) automatically when the back cover is opened.
4. The handy screw-in accessary shoe will be attached at the side top of the camera body.



PETRI PENTA

F / Feet	2	2.8	4	5.6	8	11	16	22
1.75	1.79~1.72	1.80~1.71	1.82~1.69	1.85~1.67	1.89~1.63	1.95~1.59	2.05~1.53	2.20~1.46
2	2.04~1.96	2.06~1.94	2.09~1.92	2.13~1.89	2.19~1.84	2.27~1.79	2.41~1.76	2.61~1.62
2.5	2.57~2.43	2.60~2.41	2.65~2.37	2.70~2.33	2.80~2.26	2.94~2.17	3.19~2.05	3.57~1.92
3	3.11~2.91	3.14~2.87	3.22~2.82	3.31~2.75	3.46~2.65	3.66~2.54	4.08~2.38	4.98~2.20
4	4.38~3.83	4.27~3.76	4.39~3.68	4.57~3.56	4.88~3.39	5.29~3.22	6.21~2.95	8.15~2.66
5	5.29~4.74	5.43~4.63	5.65~4.48	5.95~4.31	6.45~4.08	7.25~3.82	9.09~3.45	13.96~3.08
6	6.45~5.65	6.67~5.49	6.99~5.29	7.46~5.05	8.26~4.74	9.62~4.39	13.33~3.89	30.09~3.44
7	8.77~7.35	9.17~7.09	9.80~6.76	12.05~6.37	12.66~5.86	16.13~5.32	31.14~4.65	∞ ~3.92
12	13.89~10.64	14.93~10.19	16.67~9.43	19.61~8.70	27.03~7.75	50.00 6.85	∞ ~5.71	∞ ~4.78
30	47.62~22.22	58.80~20.41	100 ~17.86	∞ ~15.38	∞ ~12.66	∞ ~10.31	∞ ~7.94	∞ ~5.98
∞	∞ ~83.33	∞ ~82.50	∞ ~43.48	∞ ~30.30	∞ ~21.28	∞ ~15.63	∞ ~10.75	∞ ~7.81

APPLICATION OF THE DEPTH OF FIELD GUIDE

The depth of field is the distance between the furthest and nearest points which your subject will be in focus.

The depth of focus of any camera will vary according to its focal length (the distance between the film plane and the film), aperture or lens opening and different lens.

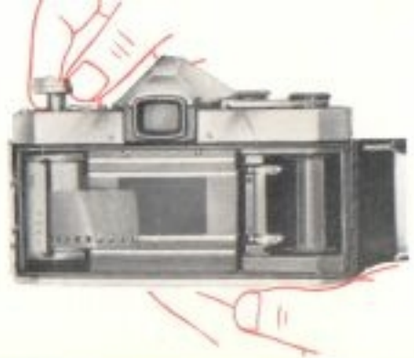
The lens with the shorter focal length will have more depth while the longer focal length will have less. Your PETRI PENTA is engraved with a depth of field scale which will aid you greatly in bringing your subject into proper focus for quick snap shots.

Become familiar with the depth of field scale on your PETRI PENTA as quickly as possible and enjoy its wonderful adaptability.

FLASH PHOTOGRAPHY

The PETRI PENTA is equipped with FP and X synchro-switch. The table shows which synchro-switch on the camera, which shutter speeds and which flashbulbs may be combined for maximum lamp efficiency. Unless these combinations are rigidly followed, there will be a failure in flash photography. Taking for an example, when you use lower speeds from 1/2 to 1/30 sec. for your flash phtography, first set the synchro-switch at X (red) and set the figure X (red) on high speed dial to the white arrow-mark. Then set the low speed dial at any of the slow shutter speeds (1/30, 1/15, 1/8, 1/4, 1/2 sec.) according to the following table and you are ready for the flash photography.

SYNCHRO SOKETS \ SHUTTER SPEEDS	1/500	1/250	1/125	1/60	X	1/30	1/15	1/8	1/4	1/2	B	
FP	FP Class (Screw base)											
	FP Class (Bayonet base)											
X						F Class						
							M Class					
					Electronic Flash							



RE-WINDING FILM BACK

pull out the rewinding crank handle and rewind the film by pressing the returning button located at the bottom of your camera.

REMOVING FILM

Pull the rewind knob out to remove the magazine.

HOW TO REMOVE FILM AFTER SHOTS

DEVELOPMENT OF YOUR PICTURES

It is important that you develop your film as soon as possible after taking your pictures.
At high temperatures, especially in the Summer your film may spoil if left in an undeveloped condition for too long a time. Be especially careful not to store your undeveloped film in a damp place.
When rewinding the film in the camera do not wind it completely so that the end of the film disappears completely into the magazine, for exposed film wound in this manner is sometimes mistaken for film not yet exposed.

	ORIKKOR f=105mm1:3.5	ORIKKOR f=135mm1:2.8	ORIKKOR f=200mm1:3.5	ORIKKOR f=300mm 1:5
construction of lens	3 elements	5 elements	5 elements	5 elements
angle of view	25°	18°	12°	8°
taking distance	4 feet to inf.	5 feet to inf	8 feet to inf.	16 feet to inf.
diaphragm scale	Preset 3.5 to 22	Preset 2.8 to 22	Preset 3.5 to 22	Preset 5 to 32
focusing	non revolving mount	non revolving mount	non revolving mount	non revolving mount
legth of lens barrel	79 mm	92 mm	155 mm	201 mm
max. dia. of lens barrel	53.5 mm	59 mm	65 mm	55 mm
gravity	350 (g)	410 (g)	680 (g)	650 (g)
attachment size	screw in type 49 P = 0.75	screw in type 49 P = 0.75	screw in type 62P = 0.75	screw in type 62 P = 0.75

When interchanging lenses, hold the lens by the focus adjusting helicoid ring shown in photograph.

PENTA'S EXTENTION TUBE SET

When yon use these PETRI PENTA's rings in between the Standard Lens and camera body, you are able to photograph with PETRI' s ORIKKOR 50mm Lens, a subject in about 9cm distance. A ring-set consists of three types; A, B and C. The thickness of A-Ring is 7.5mm, B-Ring 15mm and C-Ring 30mm. You can select the combination of them as you wish. A-Ring is useful for photographing the subject which has a comparatively wide-area such as books. When you use all of A, B & C rings with your PETRI 's ORIKKOR 50mm Standard Lens, you will get the picture of 1.05 magnifications of life-size.

PENTA'S COPY STAND

One of the superlative features of Single-Lens Reflex is that it is able to maintain the copy easily and accurately. In your collection, please add this solidly-built COPY STAND with the excellent stability of support.

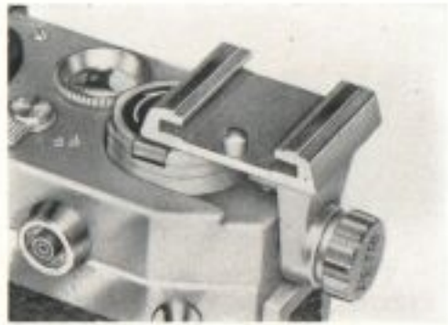
AUXILIARY LENSES FOR PETRI PENTA

(TELEPHOTO & WIDE ANGLE LENS)

Hard coated, color-corrected precision accessory lenses offer exceptional powerful magnification, superior definition and outstanding contrast. NO ADAPTERS NEEDED. Lenses screw into threaded barrel of standard lens of PETRI PENTA. Each Auxiliary lens for PETRI PENTA is precision tested for mechanical perfection.

ACCESSORY SHOE ATTACHMENT

Sturdy and versatile screw-in type accessory shoe attachment for flash-gun is another PETRI PENTA exlusive !



PETRI HOODS

The PETRI LENS HOOD has been carefully designed to prevent stray light from entering your lens.
It is constructed of light alloy metal and smartly styled to enhance the beauty of the PETRI PENTA.

PETRI FILTERS

In order to insure perfect picture in all kinds of light conditions it is necessary for you to choose the proper filters for your camera. The PETRI FILTERS manufactured of the highest quality optical ingredients and subjected to the most rigid tests are available for your camera.

For BLACK and WHITE pictures

Y1 – For the landscape with a blue sky as background, portrait, buildings and flowers, Both are

Y2 – especially conducive to the subject of moderate and clear contrast.

YA3 – It darkens sky and makes subject stand up when taking the mountains and a distant view

R1 – It blackens sky and exceedingly emphasizes subject which is mostly used for taking the pictures from airplane.

For COLOR pictures

PO1 – For the colorful subjects and natural texture skin and complexion.

UV – It absorbs the ultraviolet rays.

W4 – For the bluish subjects or the mountains.

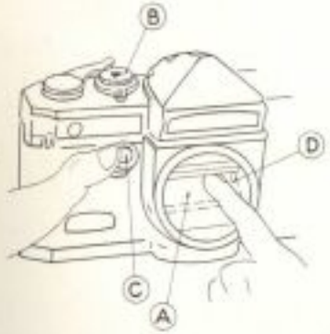
C4 – Especially be used within 2 hours before and after sunset.

C8 – It absorbs yellow in using the white flash bulb.

C12 – For the subjects under th e flood lamp or the flood-light (3,200°K)

PETRI PENTA

CARE AND HANDLING OF PETRI PENTA



NOTICE Do not touch the flipping mirror (A) and the rotating shutter dial (B), or the shutter will not work and (A) does not flip back.
For the above sticking, give a slight push to the back of the mirror (D) pushing the button (C), then (A) will flip back immediately.